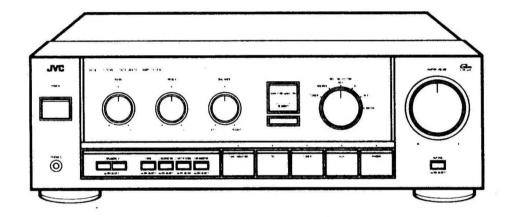
JVC

SERVICE MANUAL

MODEL No. AX-611BK



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Internal Block Diagrams of ICs				

-Safety Precautions

- The design of this product contains special hardware and may circuits and components specially for safety purposes.
 For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- Alterations of the design or circuitry of the product should not be made. Any design alterations of the product should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- 4. The leads in the products are routed and dressed with ties, clamps, tubings, barriers and the like to be separated from live parts, high temperature parts, moving parts and/or sharp edges for the prevention of electric shock and fire hazard. When service is required, the original lead routing and dress should be observed, and it should be confirmed that they have been returned to normal, after re-assembling.
- 5. Leakage current check (Electrical shock hazard testing)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the product (antenna terminals, knobs, metal cabinet, screw heads, headphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

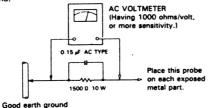
Do not use a line isolation transformer during this check.

- Plug the AC line cord directly into the AC outlet. Using a "Leakage Current Tester", measure the leakage current
 from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the
 chassis, to a known good earth ground. Any leakage current must not exceed 0.5 mA AC (r.m.s.).
- · Alternate check method

Plug the AC line cord directly into the AC outlet. Use an AC voltmeter having 1,000 ohms per volt or more sensitivity in the following manner. Connect a 1,500 Ω 10 W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground.

Measure the AC voltage across the resistor with the AC voltmeter.

Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75 V AC (r.m.s.). This corresponds to 0.5 mA AC (r.m.s.).



Warning

- 1. This equipment has been designed and manufactured to meet international safety standards.
- 2. It is the legal responsibility of the repairer to ensure that these safety standards are maintained.
- 3. Repairs must be made in accordance with the relevant safety standards.
- 4. It is essential that safety critical components are replaced by approved parts.
- 5. If mains voltage selector is provided, check setting for local voltage.

Specifications

AX-611BK OVERALL CHARACTERISTICS

Output power: 140 watts per channel into 4 ohms at 1 kHz (DIN).

90 watts per channel into 8 ohms at 1 kHz

85 watts per channel, min. RMS, both channels driven, into 8 ohms from 20 Hz to 20 kHz, with no more than 0.007% total harmonic distortion. (U.S.A. and Canada only)

85 watts per channel, min, RMS, both channels driven, into 8 ohms at 1 kHz wth no more than 0.003% total harmonic distortion, (measured by JVC Audio Analyzer System)

Total harmonic 0 007% (20 Hz — 20 kHz. 8 ohms) at 85 watts

Intermodulation : 0.007% (60 Hz : 7 kHz distortion = 4 : 1, 8 onms) at

85 watts
Power band width 5 Hz — 50 kHz (IHF. 0.05%, 8 ohms both

channels driven)
Frequency response : 5 Hz — 80 kHz +0,
-3 dR (8 ohms)

Damping factor : 90 (1 kHz. 8 ohms)

Input sensitivity/ impedance (1 kHz) PHONO (MM)

PHONO (MM) : 2.5 mV/47 kohms
PHONO (MC) : 200 µV/100 ohms
CD/AUX/ : 200 mV/43 kohms

TUNER/TAPE 1, 2 Signal-to-noise ratio

PHONO (MM) : 85 dB ('66 IHF) PHONO (MC) : 66 dB ('66 IHF) CD/AUX/ : 104 dB ('66 IHF)

TUNER/TAPE 1, 2 PHONO (MM) : 81 dB ('78 IHF) (REC OUT)

PHONO (MC) : 73 dB ('78 IHF) (REC OUT) CD/AUX/ : 76 dB ('78 IHF) TUNER/TAPE 1, 2

(SP OUT)
PHONO (MM) : 67 dB (DIN)
CD/AUX/ : 68 dB (DIN)
TUNER/TAPE 1, 2

Tone controls : TREBLE: +8 ±1 dB -8 ±1 dB

(a: 10 kHz)
BASS: +8 ±1 dB
-8 ±1 dB

(at 100 H. Lourness controls : +6 dB (at 100 Hz)

(Volume control at

(No. 20114) 1-3

EQUALIZER

PHONO overload capacity PHONO (MM)

100 mV (0.02% THD) 8 mV (0.04% THD)

PHONO (MC) PHONO RIAA deviation

PHONO (MM)

±0.3 dB (20 Hz -20 kHz) ±0.5 dB (20 Hz -

PHONO (MC) 20 kHz)

Recording output Output level/ impedance

TAPE REC-1, 2 200 mV/Maximum 1 kohms

GENERAL Dimensions

Weight

435 (W) x 147 (H) x 356 (D) mm (17-3/16" x 5-13/16"

x 14-1/16") 10.2 kg (22,5 lbs.)

Design and specifications subject to change

without notice.



OPEN-AIR STEREO HEADPHONES HA-CD7 The JVC HA-CD7 Open-Air high-quality Stereo Headphones (optionally available) are recommended for use with this unit.

POWER SPECIFICATIONS

	:	Power consumption AX-611BB	
Areas	Line voltage & frequency		
U.S.A.	AC 120 V ∿. 60 Hz	440 watts/	
Canada	AC 120 V 0, 00 112	560 VA	
U.K.	AC 240 V ∿, 50 Hz	770 watts	
Australia	AG 240 V 0, 30 112		
Continental Europe	AC 220 V √, 50 Hz		
Other areas	AC 110/127/220/240 V ∿ selectable, 50/60 Hz	320 watts	

TROUBLESHOOTING

What appears to be a malfunction may not always be serious.

Make sure first

No sound and no light is the AC plug connected properly? Are the connections made correctly? No sound from speakers

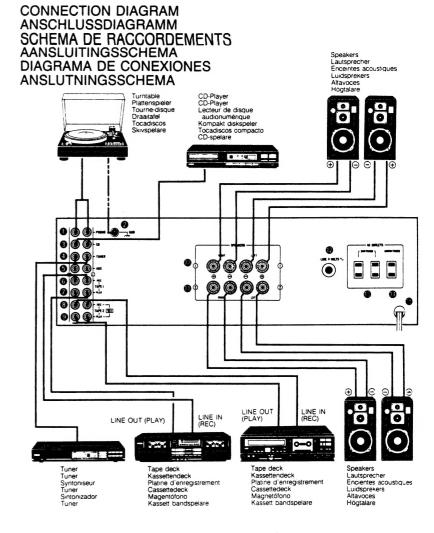
Are speaker cords connected? Are the SPEAKERS buttons correctly set? is the VOLUME control properly set? is your source component correctly set? Sound from one speaker only Are speaker cords connected correctly?
Is BALANCE control set to one extreme or the

other?

Loud hum during record playing is turntable grounded?

- Try to change cord path

Howling noise during record playing is turntable too close to a speaker?



REAR PANEL

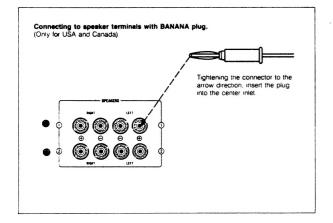
- PHONO terminals
 GND terminal
- If your turntable has a ground lead, connect it to the GND terminal
- CD terminais
- TUNER terminals
- AUX terminals
 TAPE 1 REC terminals TAPE 1 REC terminals
- TAPE 1 PLAY terminals TAPE 2 REC terminals
- TAPE 2 PLAY terminals
- SPEAKERS 1 terminals
 SPEAKERS 2 terminals

- AC line votage selector
 (LINE 1 VOLTS ~)*
 SWITCHED AC OUTLETS**
 UNSWITCHED AC OUTLET**
 Power cord

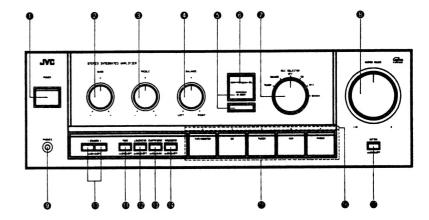
- (*Not provided on units for U.S.A., Canada, Continenta Europe, the United Kingdom and Australia.)
- (**Not provided on units for Continental Europe, the United Kingdom and Australia.)

- Notes:

 1. Switch the power off when connecting any component.
- 2. Connect source components with left and right channels connected correctly. Reversed channels may degrade the stereo effect.
- 3. Connect speakers with correct polarity; (+) to (+) and (-) to (-). Reversed polar-
- ity may degrade the stereo effect.
 4. Connect plugs or wires firmly. Poor contact may result in hum.
 5. Do not connect the power plugs of com-
- ponents which have a total power consumption exceeding the value indicated on the rear panel.
- 6. Use speakers with the correct impedance. The correct impedance is indicated on the rear panel of the AX-511BK/AX-611BK.
- 7. The SWITCHED AC outlets are switched off when the front-panel POWER button is switched off.
- 8. The UNSWITCHED AC outlet is not switched off when the front-panel POW-ER button is switched off.



FRONT PANEL FRONTPLATTE PANNEAU AVANT VOORPANEEL PANEL DELANTERO **FRAMPANEL**



FRONT PANEL

These instructions are prepared for two models: AX-511BK/AX-611BK. Therefore, read the tems below concerning each model

POWER

Press this button to turn the power on. To turn the power off, press it again.

Notes:

- When power is not supplied to this amplifier for 2 3 days, the source select button pressed before the power was switched off may be lost when the power is switched on again. If this happens, set the buttons, etc. again.
- An electronic source selector is used in this unit. When the POWER button is first switched on, two or more sources or no source mey be selected. Make sure to input the source select data by pressing one of the source selectors.
- If the POWER button is pressed repeatedly to switch on and off too quickly, the same phenomenon as the above will occur.

BASS

Turn clockwise to boost bass response and counterclockwise to decrease it.

● TREBLE

Turn clockwise to boost treble response and counterclockwise to decrease it.

BALANCE

Balances the volume between the left and right speakers. Usually set it to the center click position

CD DIRECT and indicator

Press his button to enjoy listering to the CD with good sound quality. The indicator lights and the signal fed from the CD terminals is directly connected to the volume, bypassing the circuits on the way, thus allowing you to enjoy listening to an improved sound quality.

Note:

 While the CD DIRECT button is pressed, the reproduced sound does not change even if the source selector (including TAPE 2 MONITOR) and BALANCE volume are operated, press the CD DIRECT button again to turn the indicator off when using these.

a persuper-A indicator

Pressing the POWER button to on, this indicator lights.

REC SELECTOR

TUNER: Set to this position to record broadcasts while listening to another source. SOURCE: Set to this position to record from sources connected to the PHONO, CD. TUNER or AUX terminals. Source selector TAPE 1 MONITOR

TAPE 1 terminals

CD terminals.

AUX terminals.

Source indicator

TUNER

AUX

PHONO

CD

Press to listen to a tape deck connected to the

Press to listen to the source connected to the

Press to listen to radio broadcasts by a tuner

Press to listen to the source connected to the

Press to listen to records played by a turnta-

The indicator corresponding to the source

ON (-): Press to mute the sound

(-20 dB). Use this button when answering the

OFF (___): Press again to return the

volume level to that adjusted with the MASTER

ble connected to the PHONO terminals

select button pressed lights.

● MUTING (AX-611BK only)

elephone, for example.

VOLUME control.

connected to the TUNER terminals.

OFF: Set to this position when you are not recording or dubbing.

CD: Set to this position to record CD while

listening to another source.

1 ▶ 2: Set to this position to dub from the deck TAPE 1 to TAPE 2.

S ▶ 2 ▶ 1: Set to this position to dub from the deck TAPE 2 to TAPE 1 and record the source selected with the SOURCE SELECTOR onto the deck TAPE 2.

MASTER VOLUME

Controls the volume of the speakers and headphones.

PHONES (Headphones jack)

Plug stereo headphones into this jack for private listening.

If you want to listen to sound from the headphone only, press the SPEAKERS buttons to

OFF"

Press to switch the speakers connected to the SPEAKERS 1 or 2 terminals on (____) and off (___)

● TONE

ON (___): Press to adjust the tone with the BASS and TREBLE controls.

DEFEAT (___): Press to this position to obtain a standard (flat) frequency response.

LOUDNESS

ON (__): To compensate for the ear's lower sensitivity at low listening levels. OFF (__): To bypass the LOUDNESS circuit

● CARTRIDGE

MC (_ _): Press in when using an MC cartridge having an output of less than 0.5 mV.
MM (_ _): Press again when using an MM or MC cartridge having an output of more than 0.5 mV.

● TAPE 2 MONITOR

ON (—): Set to this position to listen to the tape deck connected to the TAPE 2 terminals of this unit. If your tape deck is of the 3-head type, you can monitor the recorded sound while recording by setting this button to ON. OFF (—): Keep this button set to this position, except when you want to listen to the tape deck connected to the TAPE 2 terminals of this unit.

OPERATION

Before operation, always be sure to set VOLUME at minimum.

When the volume is increased after selecting a source position with no equipment connected to the input terminal, other connected devices (such as speakers) may be adversely affected by external noise and inductive hum.

Listening to broadcasts

- Connect a tuner to the TUNER terminals on the rear panel.
- 2. Press the POWER putton on.
- Press the TUNER button and make sure that the TAPE 1 MONITOR and TAPE 2 MONITOR buttons are set to off.
- Select the speaker system with the SPEAKERS switches
- Operate the tuner according to its instruction manual.
- Adjust the VOLUME, LOUDNESS, BALANCE and BASS/TREBLE controls.

Listening to records

- Connect a turntable to the PHONO terminals on the rear panel.
- Press the POWER button on.
 Set the CARTRIDGE button of this unit ac-
- cording to the cartndge in use.

 4. Press the PHONO button and make sure that the TAPE 1 MONITOR and TAPE 2 MONITOR buttons are set to off.
- Select the speaker system with the SPEAKERS switches.
- Operate the turntable according to its instruction manual.
- Adjust the VOLUME, LOUDNESS, BALANCE and BASS/TREBLE controls.

Listening to tapes

- Connect a tape deck to the PLAY terminals of TAPE 1 or TAPE 2.
- 2. Press the POWER button on.
- Press the TAPE 1 MONITOR button to play back the TAPE 1 deck. For playback of the TAPE 2 deck, press the TAPE 2 MONITOR button to ON (____).
- Select the speaker system with the SPEAKERS switches.
- Operate the tape deck for playback according to its instruction manual.
- Adjust the playback sound controls as required.

Note:

 Do not place the tape deck directly on the amplifier, because it may cause the amplifier to malfunction.

Using stereo headphones

Stereo headphones can be plugged into the front panel jack. Plugging headphones into the PHONES jack does not switch off the speaker sound.

Recording tapes

- Recording from records -
- Connect a tape deck to the REC terminals of the TAPE 1 or TAPE 2 terminals.
- 2. Press the POWER button on.
- Select a speaker system if you wish to hear the sound while recording.
- Sound while recording.

 4. Press the PHONO button
- Operate the turntable.
- 6. Operate the tape deck for recording

Recording from other sources (TUNER, CD, AUX)

Press the TUNER, CD or AUX button to record radio broadcasts, or the source connected to the CD, AUX terminals.

All other operations are identical to when recording from disc source.

Note

- To record from CD, turn the source selector to "CD". It is possible to monitor the high quality sound by pressing the CD DIRECT button. When monitoring other sources while recording, press the CD DIRECT button again to turn the indicator off.
- Recording from other sources (PHONO, TUNER, AUX) while listening to the CD -
- Select the source that you wish to record to from among the PHONO, TUNER and AUX button.
- Operate the tape deck for recording.
- Press the CD DIRECT button

Tape dubbing

Dubbing from the TAPE 1 to TAPE 2 is carried out as follows:

- 1. Press the TAPE 1 MONITOR button.
- Play back the TAPE 1 deck.
 Operate the TAPE 2 deck for recording.
- You can perform tape dubbing while listening to the CD by pressing the CD DIRECT button in addition to the above operations.

Notes

- The sound you hear from the speakers or headphones is the source sound, not that being recorded on the tape.
- The VOLUME control of this amplifier has no effect on the recording level. Adjust the recording level with the controls on the tape deck.

How to operate the monitor while recording on the tape deck

- Connect a 3-head tape deck to the TAPE 1 or TAPE 2 terminals.
- Make sure to connect the signal cords to the PLAY and REC terminals.
 Select the source from which you want to
- Select the source from which you want to record by depressing the source select button on this unit.
- Operate the tape deck for recording as described in its operating manual.
- By playing the source component, you can record on the tape deck.
- While recording on the tape deck, the recorded sound can be heard by depressing the TAPE 1 MONITOR or TAPE 2 MONITOR button on this unit.

Use of S.E.A. Graphic Equalizer

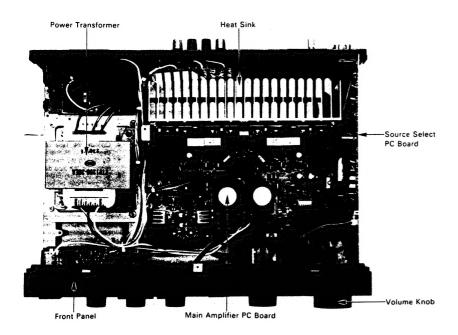
The S.E.A. Graphic Equalizer is JVC's exclusive tone control system. By allowing you to independently boost or lower the response of finely divided sections of the frequency spectrum: the S.E.A. graphic Equalizer, you can tailor the sound you will be seen to step of the sound you will be seen to graphic Equalizer, you can tailor the sound to your own taste for different types of music or to compensate for the particular acoustic characteristics of your audio components and listening room.

The TAPE 2 terminals of the AX-511BK or AX-611BK can be used for connecting the S.E.A. Graphic Equalizer.

Not

• Even if the S.E.A. Graphic Equalizer is operated while the CD DIRECT button is pressed, reproduced sound is neither adjusted nor compensated. When using the S.E.A. Graphic Equalizer, press the CD DIRECT button once again to turn the indicator off.

Removal Procedures



■ Removing the Top Cover

- 1. Remove six screws.
- Remove the top cover by lifting up its rear section and pulling it backward while holding it on incline.

■ Removing the Front Panel

- 1. Remove the top cover.
- 2. Pull out the volume knob.
- Remove three plastic rivets on the upper part of the front panel and three screws from the lower part.

■ Removing the Bottom Cover

1. Remove 19 screws fixing the bottome cover.

Removing the Source Select PC Board

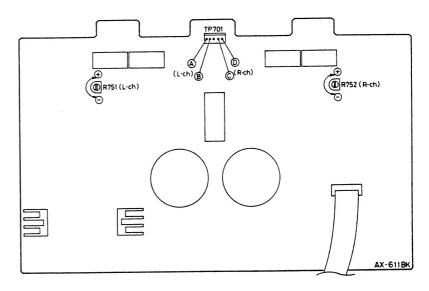
- 1. Remove the top cover.
- 2. Remove four screws fixing the pin jacks.
- Remove the fastenner from the source select pc board.
- 4. Pulling the source select pc board toward you.

■ Removing the Power Transistors

- 1. Remove the top cover.
- 2. Remove the bottom cover.
- Remove the retaining screw from the defective power transistor and replace it.

Adjustment Procedures

■ Power Amplifier Idling Adjustment



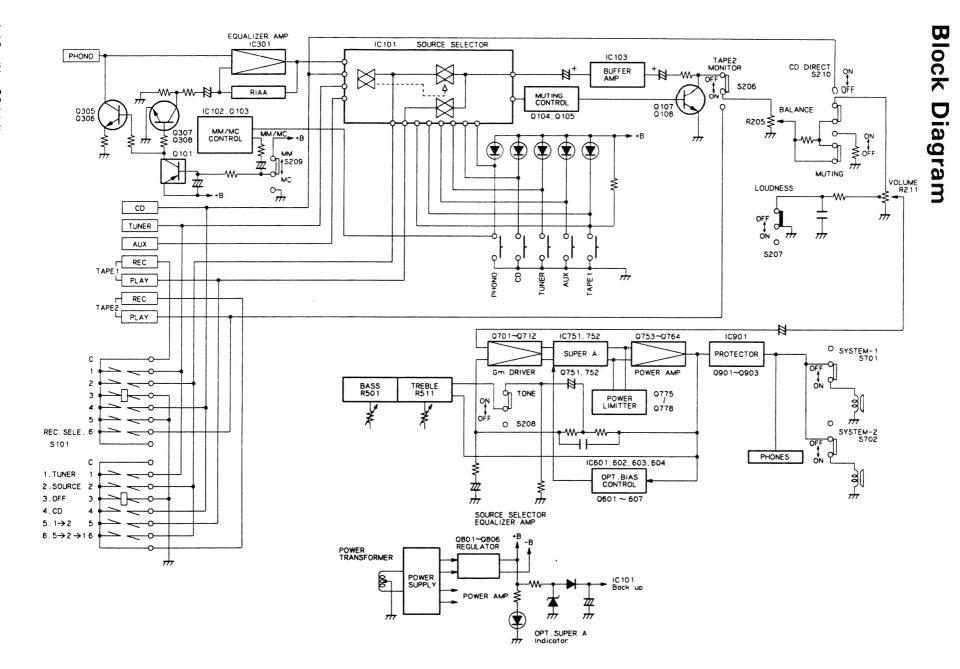
- Before turning on the power, turn the semi-fixed resistors (R751 for L channel and R752 for R channel of the power amplifier circuit board fully counterclockwise.
- Adjust the semi-fixed resistor (R751 and R752) so that the voltage at the following test points of the power amplifier circuit board is within a range of 1 ~ 3 mV after the power is turned on.
 - L channel: Measure the voltage between test point
 (a) (emitter of Q901) and output at the test point (b).

R channel: Measure the voltage between test point (a) (emitter of Q902) and output at the test point (b).

 Readjust resistors R751 and R752 about 10 minutes after the power is turned on (the heatsink temperature must be sufficiently high) so that the voltage at the test points becomes 11 mV.
 Confirm that the voltage does not vary when the heatsink temperature increases further.

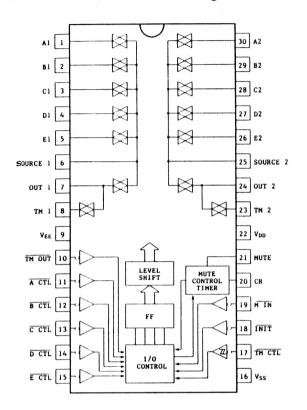
Note: Be sure to perform the measurement with the probes and cabinet of the measuring equipment separated from the grounding terminals of AX-611BK or other measuring equipment.

Since this set is a parallel balanced (push-pull) amplifier, check idling current of all the transistors after the above adjustment is performed.

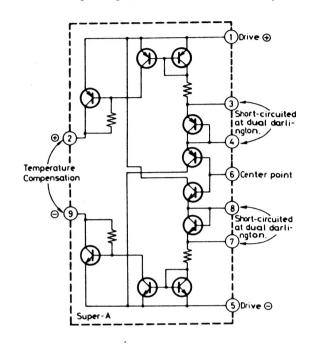


Internal Block Diagrams of ICs

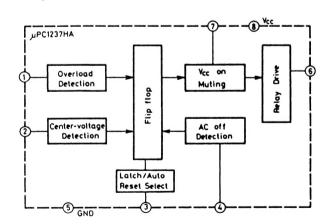
LC7818 (IC101): Analog Switch



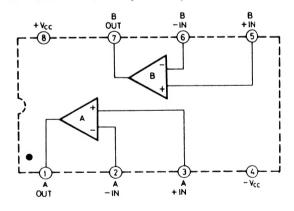
■ VC5022 [X, Y] (IC751, IC752): Super-A



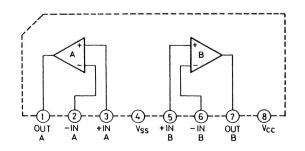
■ µPC1237HA (IC901): Relay Driver



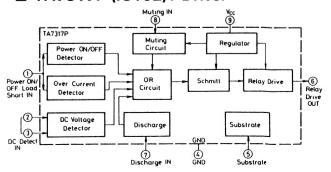
■ NJM4560DD (IC301): Dual OP Amp.

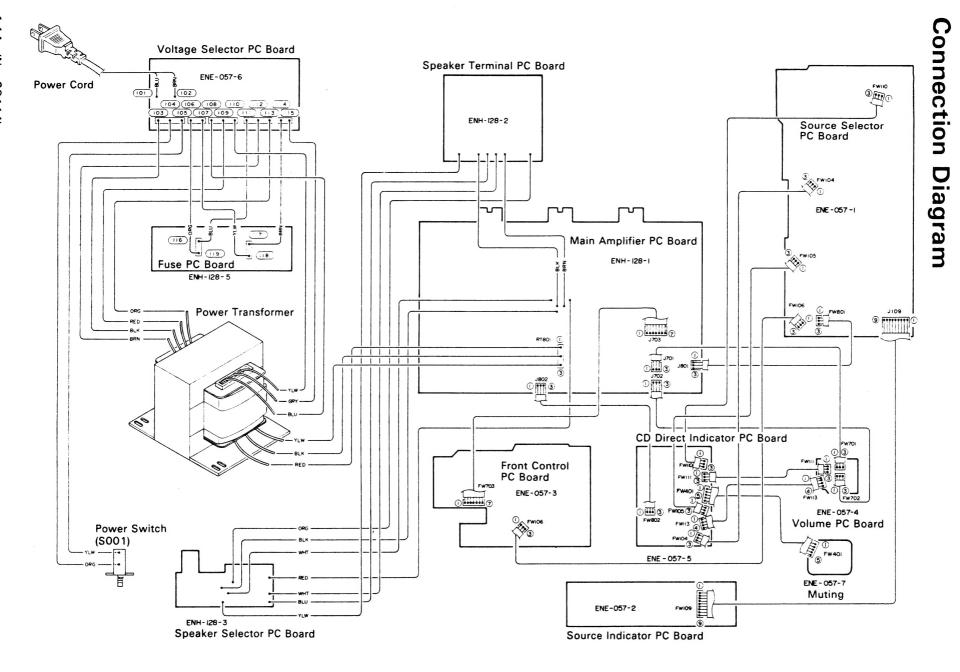


■ M5218L-R (IC103) : Dual OP Amp. ■ BA15218N (IC601, 602) : Dual OP Amp.



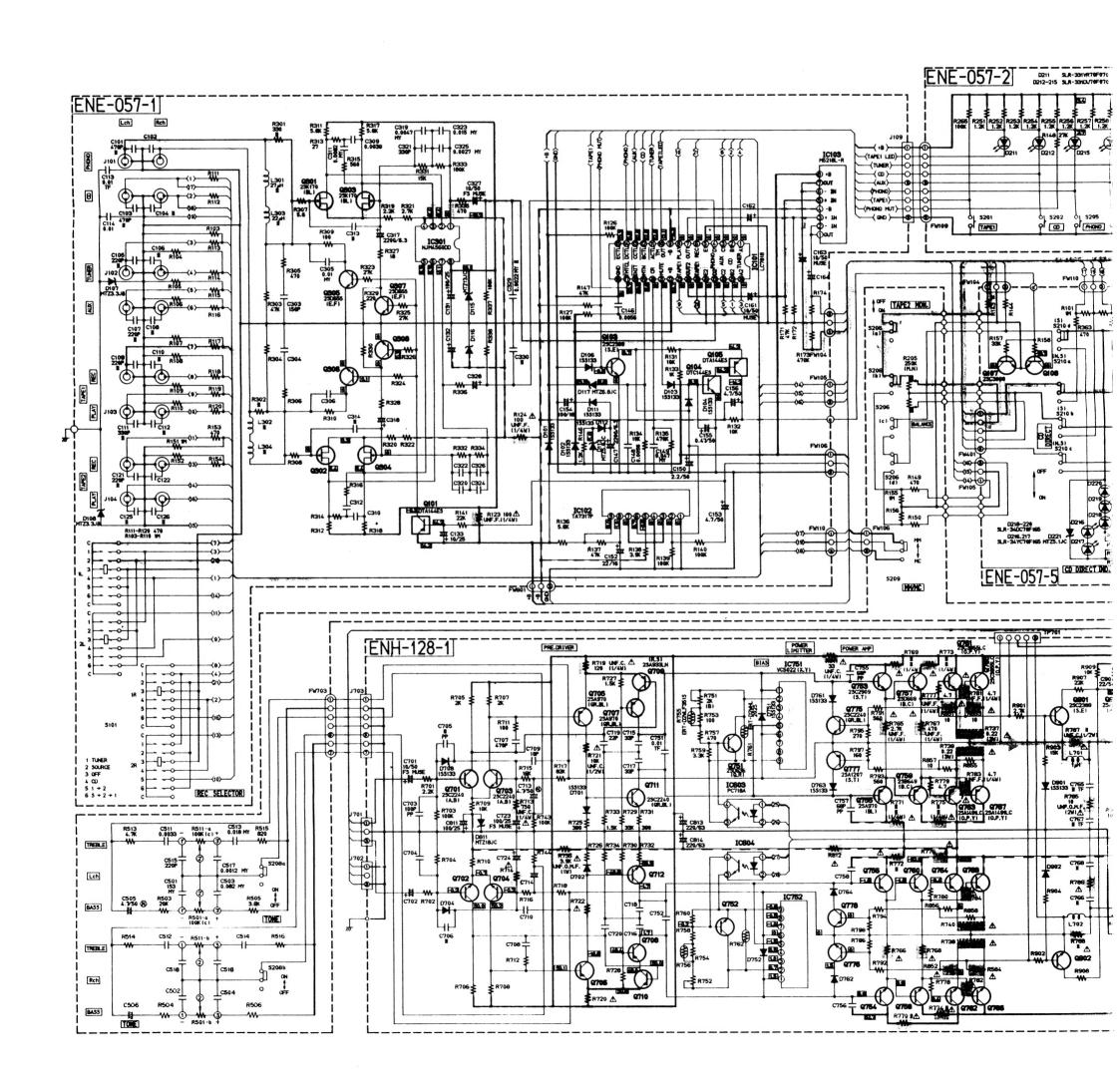
■ TA7317P (IC102): Driver

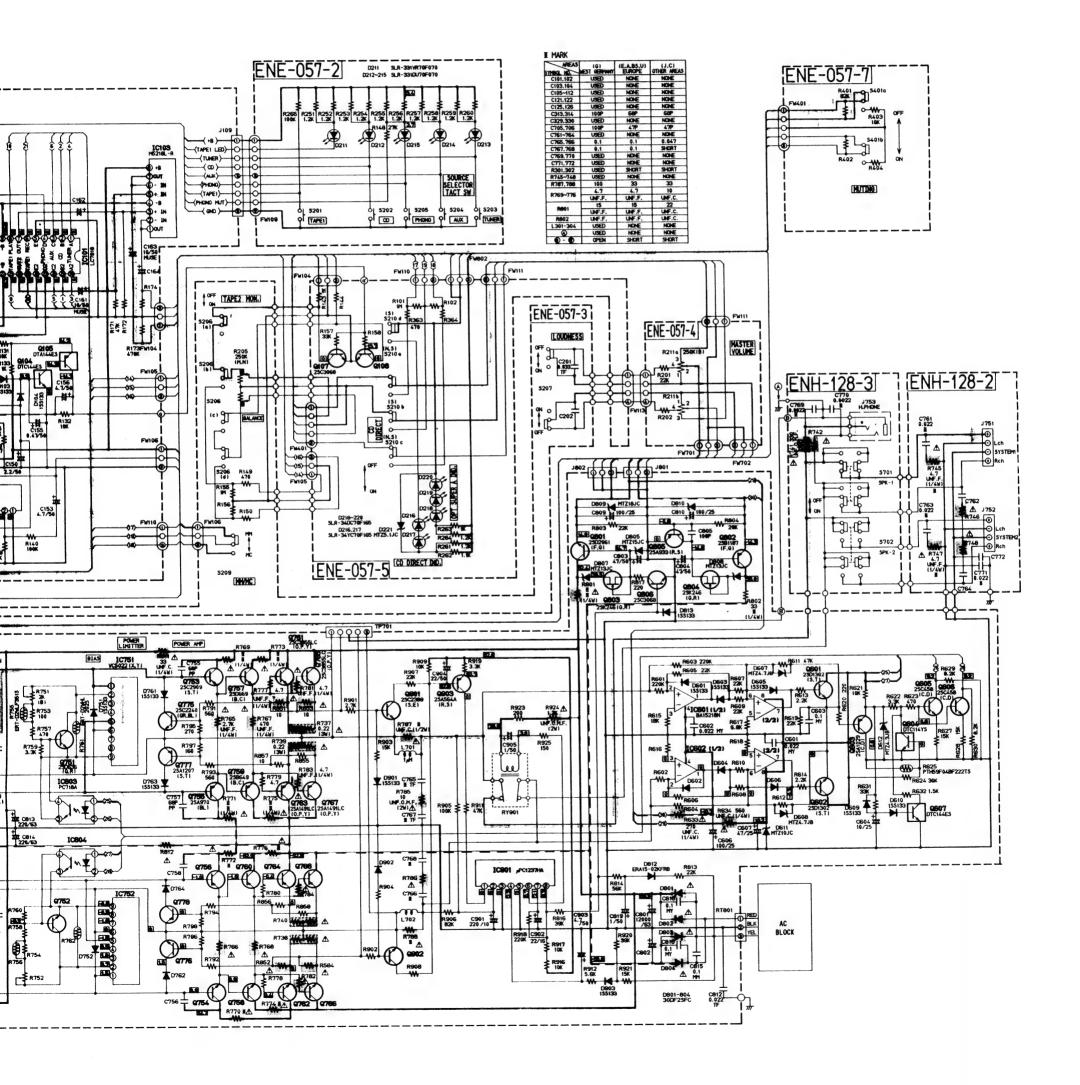




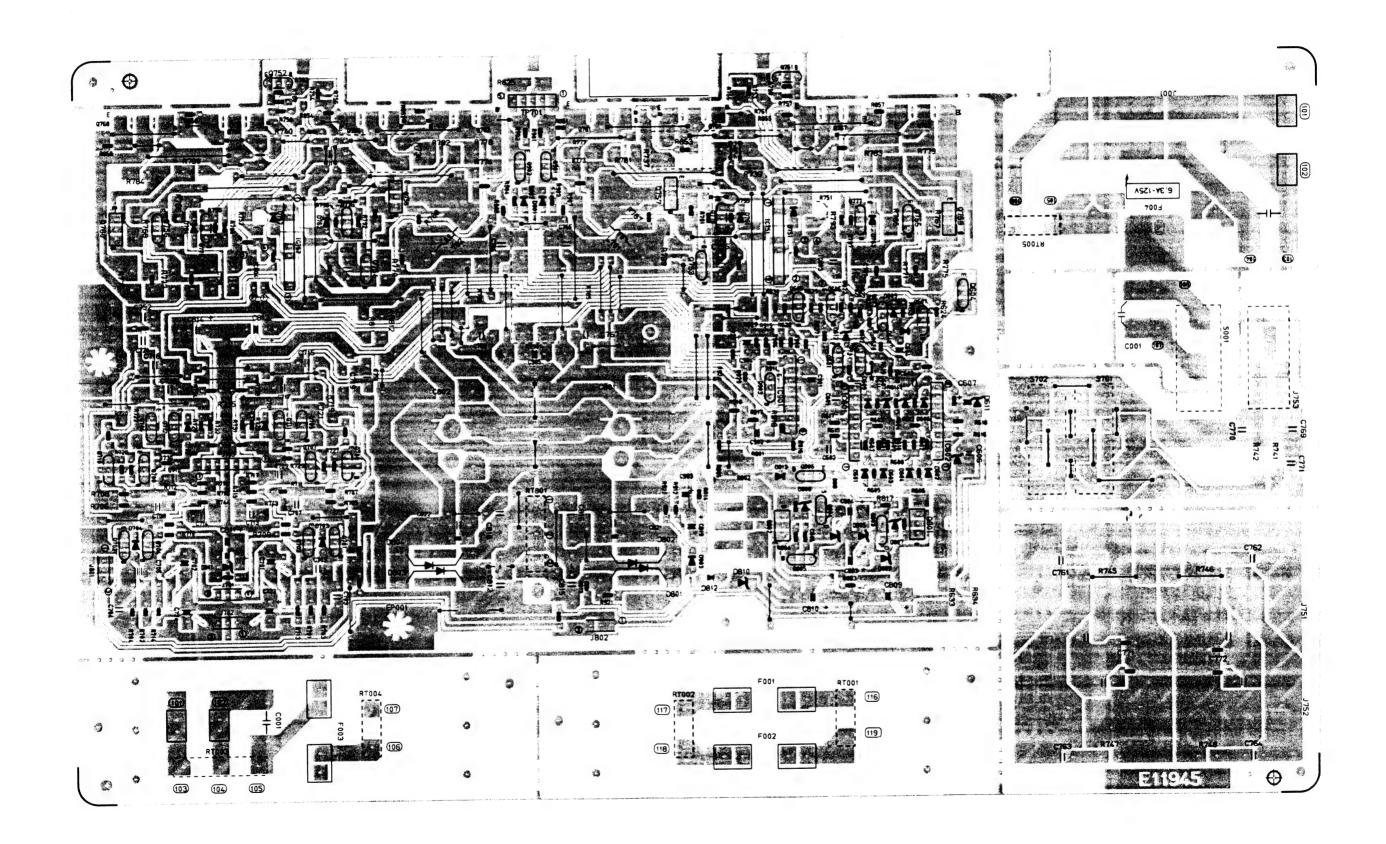
Schematic Diagrams

■ Source Select and Main Amplifier Section





Main Amplifier PC Board (ENH-128)



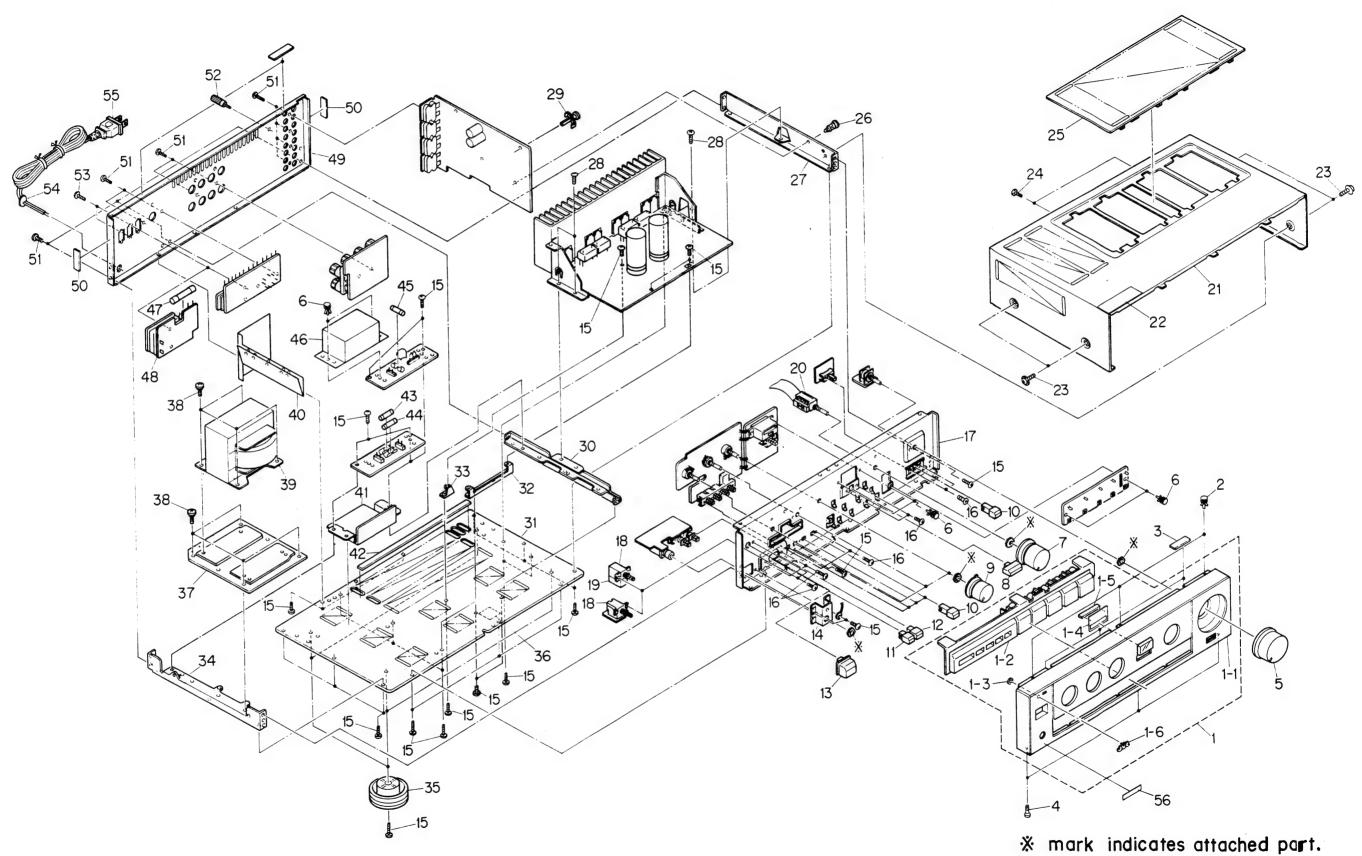
PARTS LIST

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Packing Materials and Part Numbers	2-15

AX-611BK AX-611BK

Exploded View and Parts List



	14	I De a Normalian	D. of Manage	104	T 5	
\triangle	Item	Part Number	Part Name	Q'ty	Description	Areas
	1.	EFP-AX611BKE	Front Panel Ass'y	1		İ
	1-1 1-2	E26392-002 E26332-003	Front Panel Push Button Ass'y	1 1	I	
	1-2	E60912-003	Speed Nut	1 1		
	1-4	E75327-001	Indicator Sheet	li		
-	1.5	FV0033003N10003	5	 	 	
	1-5 1-6	EXO032003N10S02 E72968-001	Spacer JVC Mark	1 1	1	
	2	E48729-009	Plastic Rivet	3		
	3	EXO060007N40S	Felt Spacer	3	1	
	4	SBSG3006M	Screw	3		
	5	E305980-001	Volume Knob	1		
	6	E48729-008	Plastic Rivet	4		J,C
		E48729-008	Plastic Rivet	6		Except J , C
	7	E305982-002	Knob	1 !		
	8	E75117-001	Push Button	1		
	9	E305981-002	Knob	3	Tone	
	10	E75182-001	Push Button	5	Tape	
	11	E75073-001	Push Button Push Button	1	SPK-1	
	12 13	E75073-002 E75079-001	Power Button	1 1	SPK-2	
\vdash						<u> </u>
	14	E75186-001	Head Phone Bracket	1		
	15	SBSG3008CC SBSG3008CC	Screw	31 35		J,C
	16	SBST3006CC	Screw	10	1	ExceptJ , C
	17	E11954-001	Front Bracket	1 1	ĺ	
\vdash	•••	0504405 005	Bull Color	-		
1 1	18	QSP1106-005 QSP1106-005BS	Push Switch Push Switch	1 1	S001 S001	Except J , C , BS BS
1 1	19	E71005-001	Switch Cover		13001	Except J, C
	20	QSR2B16-E02	Flex Rotaly	i		CACCPLY, C
	21	E26269-002	Metal Cover	1		U,E,EF,BS
		E26269-003	Metal Cover	1		J,C,A,G
	22	E67000-005	Caution Label	1		,,,,,,,,
1 1	23	E61660-004	Spacial Screw	4		
1 1	24	SBSG3008M	Screw	2		
	25	E24134-008	Grill	1		U,E,EF,BS
	26	E303216-001	Fastener	1		
	27	E305801-001	Side Bracket	1	Right	
	28 29	GBSB3008CC E69384-002	Screw Fastener	3		
	30	E305802-001	Center Bracket	1		
\vdash				-		
]	31 32	E26268-002 E75341-001	Bottom Cover Circuit Board Bracket	1		
	33	E68587-008	Bracket			
	34	E305800-001	Side Bracket	1	Left	
	35	E75088-001	Foot Ass'y	4		
	36	E72081-001	Caution Label	1		1
	٥٥	E70115-002	Caution Label	1		U,E,EF,A,G,BS
	3 7	E306183-001	Trans Bracket	1		-,-,-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	38	E65389-004	Special Screw	8		
Æ	39	ETP1200-36JA	Power Transformer	1	T001	1,C
\triangle		ETP1200-36FA	Power Transformer	1	T001	U
		ETP1200-36EA	Power Transformer	1	T001	E,EF,A,G
(1)	1	ETP1200-36EABS	Power Transformer	1	T001	BS
	40	E305986-001 E305986-002	Protect Cover Protect Cover	1 1		U
		L303300-002	, rotect cover	1		E,EF,A,G,BS
	41	E75439-001	Protect Cover	1		Except J , C
A	42	EXO255005N60S02	Spacer	1	5004	
岩	43	QMF51E2-4R0J1 QMF51A2-8R0J1	Fuse Fuse	1	F001 F002	U U
	45	QMF51E2-4R0J1	Fuse	1	F003	E, EF, A, G
Δ	46	QMF51E2-4R0J1BS E306171-001	Fuse Protect Cover	1	F003	BS Except I C
Δ	46	QMF61U1-8R0	Fuse	1	F004	Except J , C J , C
_	48	E69589-010	Spacer	1		J
	49	E26340-004	Rear Panel	1		J,C
			L			

⚠: Safety Parts

2-5 (No. 20114) 2-6 (No. 20114)

Δ	Item	Part Number	Part Name	Q'ty	Description	Areas
	- 50 51	E26340-005 E26340-006 E303260-198 EXO040010R10S10 E73273-001	Rear Panel Rear Panel Rating Label Spacer Screw	1 1 1 2 9		U E,EF,A,G,BS E,EF,G Except U
A	52 53 54	E73273-001 E70078-001 SDSB30C8M QHS3876-162 QHS3876-162BS	Screw GND. Terminal Screw Cord Stopper Cord Stopper	11 1 2 1 1		U J, C, U Except BS BS
	55	QMP1480-200 QMP7520-200 QMP3900-200 QMP2560-244 QMP9017-008BS	Power Cord Power Cord Power Cord Power Cord Power Cord	1 1 1 1		J, C U E, EF, G A BS
	56 - - -	E49267-001 E74247-004 E67199-001 E65507-001	Origin Marking Label Caution Label Caution Label Caution Label	1 1 1 1		BS J C

⚠: Safety Parts

The Marks for Designated Areas					
JContinental Europe					
CCanada	BS····· the U.K.				
AOther Countries					
GWest Germany	No mark indicates all areas.				

Power Supply Section

Notes:

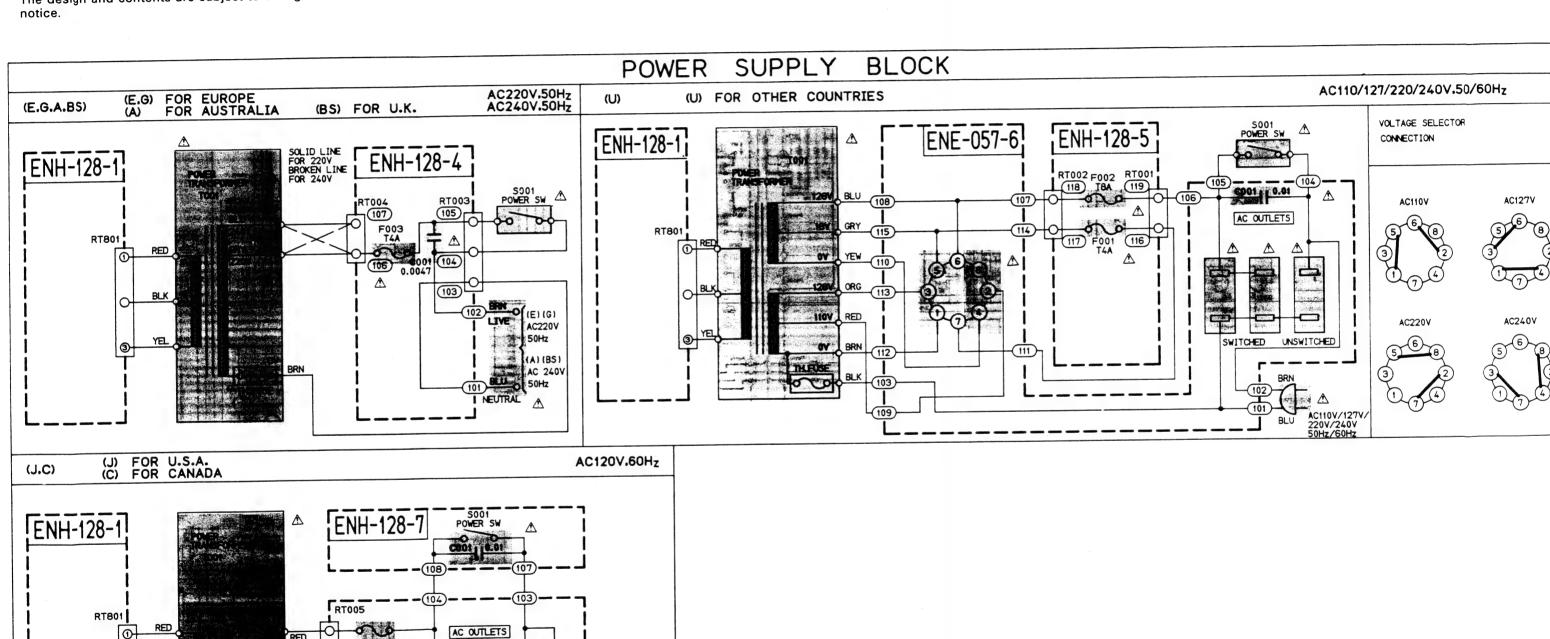
1. —— indicates + B power supply.

2. — indicates — B power supply.
3. indicates signal path.
4. shows DC voltage to the chassis with no signal input.

5. When replacing the parts in the darkened are () and those marked with \triangle , be sure to use the designated parts to ensure safety.

6. This is the standard circuit diagram.

The design and contents are subject to change without



AC120V~ 60Hz

Δ

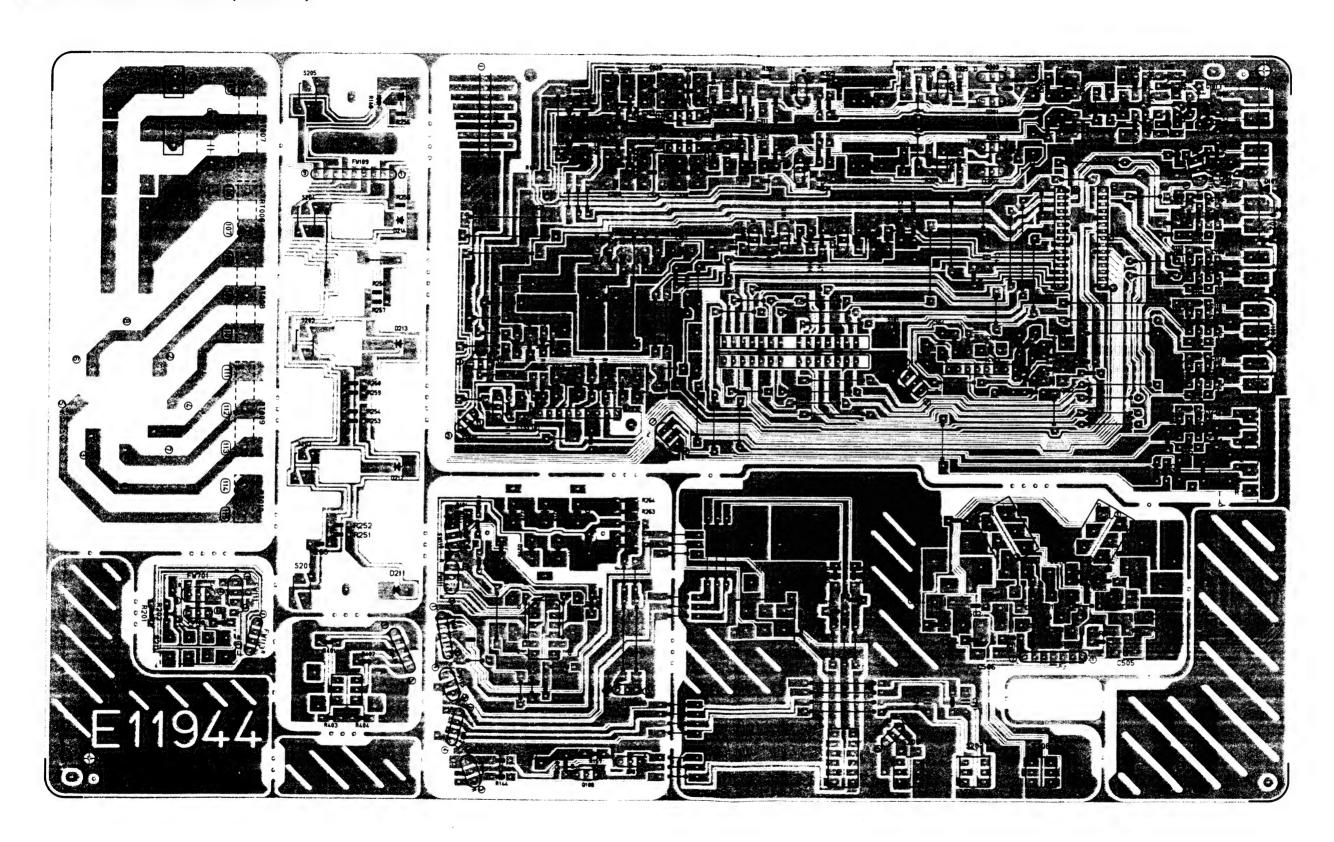
SWITCHED

ENH-128-6

UNSWITCHED

Printed Circuit Boards

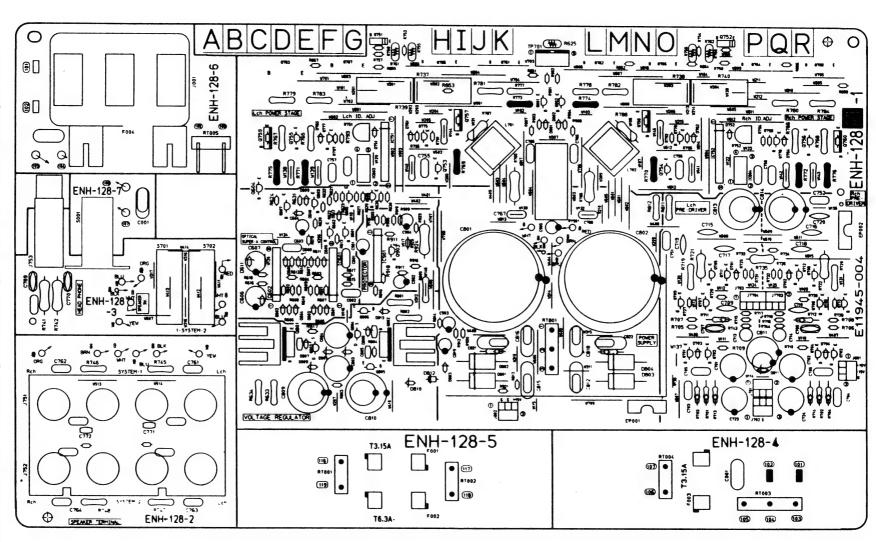
■ Source Select PC Board (ENE-057)



Ass'y and Parts **Printed Circuit Board**

■ ENH-128 ☐ Main Amplifier PC Board Ass'y

Note: ENH-128 ☐ varies according to the employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENH-128 F	Other Countries
ENH-128 G	Australia, Continental Europe
ENH-128 H	West Germany
ENH-128 BS	the U.K.
ENH-128 J	the U.S.A., Canada

Transistors

	111313			
Â	ITEM	PART NUMBER	DESCR	I P T I O N AREA
				MAKER
	Q601	2SD1302(S,T)	SILICON	MATSUSHITA
	Q602	2SD1302(S,T)	SILICON	MATSUSHITA
	0603		SILICON	HITACHI
	9604		SILICON	ROHM
	0605		SILICON	HITACHI
1	0606	and the second of the second o	SILICON	HITACHI
	Q607	DTC144ES	SILICON	ROHM
	Q701	2SC2240(A,B)	SILICON	TOSHIBA
	Q702	2SC2240(A,B)	SILICON	TOSHIBA
	Q703	2SC2240(A/B)	SILICON	TOSHIBA
	Q704	2SC2240(A,B)	SILICON	TOSHIBA
	Q705	2SA970(GR/BL)	SILICON	TOSHIBA
	Q706	2SA970(GR/BL)	SILICON	TOSHIBA
	Q707	2SA970(GR,BL)	SILICON	TOSHIBA
	Q708	2SA970(GR,BL)	SILICON	TOSHIBA
	Q709		SILICON	ROHM
	Q710		SILICON	ROHM
	Q711	2SC2240(GR.BL)	SILICON	TOSHIBA
	Q712	2SC2240(GR,BL)	SILICON	TOSHIBA
	Q751	*************************	SILICON	MATSUSHITA
	Q752	2SD636(Q,R)	SILICON	MATSUSHITA
	Q753	2SC2909(S,T)	SILICON	SANYO
	Q754	2SC2909(S,T)	SILICON	SANYO
	Q755	2SA1207(S,T)	SILICON	SANYO
	Q756	2SA1207(S,T)	SILICON	SANYO
	Q757 Q758	2SD669A(B,C)	SILICON SILICON	HITACHI HITACHI
	Q759	2SD669A(B,C)		HITACHI
	Q760	2SB649A(B,C) 2SB649A(B,C)	SILICON SILICON	HITACHI
	Q761	2SC3855LC(0,Y)	SILICON	n i i a c a i
	Q762	2SC3855LC(0/Y)	SILICON	ł
	Q763		SILICON	
	Q764	2SA1491LC(0,Y)	SILICON	
	0765	2SC3855LC(0,Y)	SILICON	
	Q766		SILICON	
	Q767	2SA1491LC(0,Y)	SILICON	
	Q768	2SA1491LC(0,Y)	SILICON	
	Q775	2 SC2240 (GR, BL)	SILICON	TOSHIBA
	Q776	2SC2240(GR.BL)	SILICON	TOSHIBA
	Q777	2SA970(GR,BL)	SILICON	TOSHIBA
	Q778	2 SA970 (GR, BL)	SILICON	TOSHIBA
	Q801	2SD2O61(F,G)	SILICON	ROHM
	Q802	2 SB1187 (F,G)	SILICON	ROHM
	Q803	2 SK246 (GR)	F.E.T	TOSHIBA
	Q804	2 SK246 (GR)	F.E.T	TOSHIBA
- 1	Q805	2 SA933S (R,S)	SILICON	ROHM
	0806		SILICON	SANYO
	Q901	2SC2389(S/E)	SILICON	ROHM
	0902	2S(2389(S,E)	SILICON	ROHM
	Q903	2 S A 5 6 4 A (R,S)	SILICON	MATSUSHITA
			∆ :	SAFETY PARTS

I.C.s

Δ	ETEM	PART NUMBER	DESCR	IPTION AREA
				MAKER
	10601	BA15218N	I.C.	ROHM
i	10602	BA15218N	I.C.	ROHM
i	10603	PC817A	1.C.	SHARP
- 1	10604	PC817A	I.C.	SHARP
1	1 C 7 S 1	VC5022(X,Y)	1.C.	ROHH
	10752	VC5022(X,Y)	I.C.	ROHM
1	10901	UPC1237HA	I.C.	NEC

Diodes

Δ	LTEM	PART NUMBER	DESCR	IPTION	AREA
				MAKER	
	D601	188133	SILICON	ROHM	
	D602	188133	SILICON	ROHM	
	D603	188133	SILICON	ROHM	
	D604	188133	SILICON	ROHM	
	D605	188133	SILICON	ROHM	
	D606	188133	SILICON	ROHM	
	0607	MTZ4.7JB	ZENER	ROHM	
	D608	MTZ4.7JB	ZENER	ROHM	
	D609	188133	SILICON	ROHM	
	D610	188133	SILICON	ROHM	
	D611	MTZ10JC	ZENER	ROHM	
	D612	MTZ4.3JB	ZENER	ROHM	
	D701	155133	SILICON	ROHM	
	0702	188133	SILICON	ROHM	
	D703	188133	SILICON	ROHM	
	D704		SILICON	ROHM	
	D751		SILICON	ROHM	
	D752		SILICON	ROHM	
	D761		SILICON	ROHM	
	D762		SILICON	ROHM	
	1 1	188133	SILICON	ROHM	
	D764		SILICON	ROHM	
	4 3	30DF2SFC	SILICON	NIHONINTER	
		30DF2SFC	SILICON	NIHONINTER	1
		30DF2SFC	SILICON	NIHONINTER	
		30DF2SFC	SILICON	NIHONINTER	
	D805		ZENER	ROHM	
	D807		ZENER	ROHM	
	D808		ZENER	ROHM	
		MTZ18JC	ZENER	ROHM	
		MTZ18JC	ZENER	ROHM	
	D811		ZENER	ROHM	
₫	D812		SILICON	KYOUDOU	
٠	1 1	188133	SILICON	ROHM	
	1 1	155133	SILICON	ROHM	
		188133	SILICON	ROHM	
	D903		SILICON	ROHM	
	3,03	100100	5121000	1	
			1	i	

Capacitors

	-					
A	LTEM	PART NUMBER	DESC	C R I	PTION	AREA
1	C001	QCZ9038-103	0.01MF	1	CERAMIC	G
	C001	QCZ9038-103	0.01MF		CERAMIC	н
	C001	QCZ9038-103	0.01MF	1	CERAMIC	J
	C001	QCZ9038-103BS	0.01MF		CERAMIC	IBS
	C601	QFN81HJ-223	0.022MF	50V	MYLAR	
	C602	QFN81HJ-223	0.022MF	50V	MYLAR	
	C603	QFN81HK-104	0.1MF	50V	MYLAR	
	C604	QETB1EM-106	10MF	25 V	ELECTRO	
	C606		100MF	25 V	ELECTRO	
	C607	and the second second	47MF	25 V	ELECTRO	
	C701	EEZ5009-106	10MF	1.	ELECTRO	
		EEZ5009-106	10MF		ELECTRO	
	C703		100PF	50V	POLY	
	C704	QFP81HJ-101	100PF	50V	POLY	
	C705	QFP81HJ-101	100PF	50V	POLY	Н
	C705		47PF	50V	POLY	F
	C705		47PF	50 V	POLY	G
	C705		47PF	50V	POLY	IBS
	C705		47PF	50 V	POLY	J
	C706		100PF	50V	POLY	н
			47PF	50V	POLY	F
	C706		47PF	50V	POLY	G
	C706		47PF	50V	POLY	IBS
	C706		47PF	50V	POLY	J
	C707		470PF	50V	CERAMIC	
	C708		470PF	SOV	CERAMIC	
	C709		10PF	50V	CERAMIC	
	C710		10PF	50V	CERAMIC	
	C713		4.7MF	50V	NON POLE	
	C714		4.7MF	50V	NON POLE	
	C715		33PF	50V	CERAMIC	
	C716		33PF	50V	CERAMIC	
	C717		33PF	50V	CERAMIC	
	C718		33PF	50V	CERAMIC	
	C719		22PF	50V	CERAMIC	
	C720		22PF	50V	CERAMIC	
			100MF		ELECTRO	
	C724		100MF	5011	ELECTRO	
	C752			50V	POLY	
	0132	#1.E01U1-102	0.01MF	50V	POLY	

Capacitors

\triangle	стем	PART NUMBER	DESC	R 1	PTION	AREA
	C755 C756 C757 C758 C761 C762 C763 C764 C765	QFP82AJ-680 QFP82AJ-680 QFP82AJ-680 QFN81HK-223 QFN81HK-223 QFN81HK-223 QFN81HK-223 QFV81HJ-104 QFV81HJ-104	68PF 68PF 68PF 68PF 0.022MF 0.022MF 0.022MF 0.022MF 0.1MF 0.1MF	100V 100V 100V 50V 50V 50V 50V 50V 50V	POLY POLY POLY POLY MYLAR MYLAR MYLA MYLA T.FILM T.FILM T.FILM	H H H
	C768 C769 C770 C771 C772 C801 C802 C803	QCF21HP-222 QCF21HP-222 QCHB1EZ-223 QCHB1EZ-223 EEW6309-129T EEW6309-129T QETB1HM-476 QETB1HM-476	2200PF 2200PF 0.022MF 0.022MF 12000MF 12000MF	50V 50V 25V 25V 50V 50V 50V	T.FILM CERAMIC CERAMIC CERAMIC CERAMIC ELECTRO ELECTRO ELECTRO ECECTRO ECECTRO	н н н
	C811 C812 C813 C814 C815 C816	QETB1EM-107 QETB1EM-107 QETB1EM-107 QFV81HJ-223 QETB1JM-227 QETB1JM-227 QFH42EK-104 QFN82AK-104	100MF 100MF 100MF 0.022MF 220MF 220MF 0.1MF	25V 25V 25V 50V 63V 63V 250V 100V	ELECTRO ELECTRO ELECTRO T.FILM ELECTRO ELECTRO M.MYLAR MYLAR	
	C901 C902 C903 C904	QETB1HM-105 QETB1AM-227 QETB1CM-226 QETB1HM-475 QETB1HM-226	0.1MF 1MF 220MF 22MF 4.7MF 22MF	50V 10V 16V 50V 50V	MYLAR ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO ELECTRO	

A : SAFETY PARTS

Rasistors

	SISTO				
Δ	LTEM	PART NUMBER	DESC	: R I	PTION AREA
	R601	QRD167J-224	220K		CARBON
	R602	QRD167J-224	220K		CARBON
	R603	QRD167J-224	220K	1/6W	CARBON
	R604	QRD167J-224	220K	1/6W	CARBON
	R605	QRD167J-223	22K	1/6W	CARBON
	R606	QRD167J-223	22K	1/6W	CARBON
	R607	QRD167J-223	22K	1/6W	CARBON
		QRD167J-223	22K	1/6W	CARBON
		QRD167J-223	22K	1/6W	CARBON
		QRD167J-223	22K	1/6W	CARBON
		QRD167J-473	47K	1/6W	CARBON
		QRD167J-473	47K	1/6W	CARBON
		QRD167J-222	2.2K	1/6W	CARBON
		QRD167J-222	2.2K	1/6W	CARBON
		QRD167J-183	18K	1/6W	CARBON
		QRD167J-183	18K	1/6W	CARBON
	R617	QRD167J-682	6.85	1/6W	CARBON
	R618	QRD167J-682	6.8<	1/6W	CARBON
	R619	QRD167J-223	22K	1/6W	CARBON
	R620	QRD167J-221	220	1/6W	CARBON
		QRD167J-103	10K	1/6W	CARBON
	R622	QRD167J-332	3.3K	1/6W	CARBON
	R623	QRD167J-471	470	1/6W	CARBON
	R624		30K	1/6W	CARBON
Δ	R625	PTH59F04BF222TS			POSISTOR
	R627	QRD167J-153	15K	1/6W	CARBON
	R628	QRD167J-153	15K	1/6W	CARBON
	R629		8.2K	1/6W	CARBON
	R630	QRD167J-822	8.2K	1/6W	CARBON
	R631	QRD167J-333	33K	1/6W	CARBON
	R632	QRD167J-152	1.5K	1/6W	CARBON
Δ	R633	QRD14CJ-271S	270	1/4W	UNF.CARBON
Δ	R634	QRD14CJ-271S	270	1/4W	UNF.CARBON
	R701	QRD167J-222	2.2	1/6W	CARBON
	R702	QRD167J-222	2.2K	1/6W	CARBON
	R703		100<	1/6W	CARBON
	R704	QRD167J-104	1004	1/6W	CARBON
	R705	QRD167J-202	2 K	1/6W	CARBON
	R706	QRD167J-202	2 K	1/6W	CARBON
	R707	QRD167J-202	2 K	1/6W	CARBON

Resistors

	,		·			·
₾	гтем	PART NUMBER	DESC	RI	P T I O N	AREA
	R708	QRD167J-202	2 K	1/6W	CARBON	
	R709 R710	QRD167J-103 QRD167J-103	10K 10K	1/6W 1/6W	CARBON	
	R711	QRD167J-101	100	1/6W	CARBON	
	R712	QRD167J-101	100	1/6W	CARBON	
<u>*</u>		QRD14CJ-751S	750	1/4W	UNF.CARBO	1
Δ.	R714 R715	QRD14CJ-751S QRD167J-163	750 16K	1/4W 1/6W	UNF.CARBO CARBON	N
	R716	QRD167J-163	16K	1/6W	CARBON	
	R717	QRD167J-823	82K	1/6W	CARBON	
		QRD167J-823	82K	1/6₩	CARBON	
<u>A</u>	R719	QRD14CJ-121S QRD14CJ-121S	120	1/4W	UNF. CARBO UNF. CARBO	
<u>*</u>	R721		10K	1/2W	UNF. CARBO	
<u>À</u>	R722	QRD125J-103	10K	1/2W	UNF.CARBO	N
	R725 R726	QRD167J-391 QRD167J-391	390 390	1/6W	CARBON CARBON	
	R727	QRD167J-152	1.5K		CARBON	
	R728	QRD167J-152	1.5K		CARBON	
	R729	QRD167J-333	33K		CARBON	
	R730 R731	QRD167J-333 QRD167J-391	33K 390		CARBON CARBON	
	R732	QRD167J-391	390		CARBON	
	R733	QRD167J-152	1.5K	1/6W	CARBON	
	R734	QRD167J-152	1.5K		CARBON	
4	R737	QRG012J-392A ERF032K-R22	3.9K 0.22	1 W 3 W	O.M.FILM CEMENT	
राभाजसंस्य स्	R738	ERF032K-R22	0.22		CEMENT	
4	R739	ERF032K-R22	0.22	3 W	CEMENT	
4	R740	ERF032K-R22	0.22		CEMENT	
<u>~</u>	R741	QRG022J-331A QRG022J-331A	330 330		O.M.FILM O.M.FILM	
-		QRD167J-104	100K		CARBON	
.	R744	QRD167J-104	100K		CARBON	
Δ .		QRD14CJ-4R7S QRD14CJ-4R7S	4.7		UNF. CARBO UNF. CARBO	
△ △ △	R747	QRD14CJ-4R7S			UNF. CARBO	
۵	R748	QRD14CJ-4R7S	4.7	1/4W	UNF. CARBO	
	R751	QVPE601-202			VARIABLE	
	R752	QVPE601-202 QRD167J-101	2K 100		VARIABLE CARBON	
	R754	QRD167J-101	100		CARBON	
l	R755		1		THERMISTO	1 1
	R756 R757	ERT-D2WFL351S QRD167J-471	350 470	1	THERMISTO CARBON	R
	R758	QRD167J-471	470		CARBON	
1	R759	QRD167J-332	3.3K		CARBON	
i	R760	QRD167J-332	t I		CARBON	
	R761	ERT-D2WHL202S ERT-D2WHL202S			THERMISTO THERMISTO	
Δ	R765	QRZ0077-272	2.7K		FUSIBLE	
4444	R766	QRZ0077-272			FUSIBLE	
4	R767	QRZ0077-471 QRZ0077-471			FUSIBLE FUSIBLE	
A	R769	QRZ0077-4R7			FUSIBLE	
Δ		QRZ0077-4R7	4.7		FUSIBLE	
A.	R771	QRZ0077-4R7	r.,	1/4W	FUSIBLE	
4	R772 R773	QRZ0077-4R7 QRZ0077-4R7			FUSIBLE FUSIBLE	
$\frac{\Delta}{\Lambda}$	R774	QRZ0077-4R7			FUSIBLE	
44444444444444	R775	QRZ0077-4R7	4.7	1/4W	FUSIBLE	
4	R776	QRZ0077-4R7 QRZ0077-4R7			FUSIBLE	
2	R777	QRZ0077-4R7			FUSIBLE FUSIBLE	
Ξ	R779	QRZ0077-4R7	4.7	1/4W	FUSIBLE	
4	R780	QRZ0077-4R7	4.7		FUSIBLE	
-	R781 R782	QRZ0077-4R7 QRZ0077-4R7			FUSIBLE FUSIBLE	
31	R783	QRZ0077-4R7			FUSIBLE	
<u>:</u>	R784	QRZ0077-4R7	4.7	1/4W	FUS!BLE	
<u> </u>	R785	QRG022J-100A			O.M. FILM	
-	R786	QRG022J-100A QRD125J-101		2W 1/2W	O.M. FILM UNF. CARBO	N H
3	R787	QRD125J-330			UNF, CARBO	
اذ	R787	QRD125J-330	33	1/2W	UNF, CARBO	v G
2	R787	QRD125J-330	33	1	UNF. CARBO	
न न स स स स स स स स स	R787 R788	QRD125J-330 QRD125J-101			UNF, CARBOI	
1	R788	QRD125J-330			UNF CARBO	
اذ	R788	QRD125J-330	33	1/2W	UNF. CARBO	v G
21	R788	QRD125J-330			UNF. CARBO	
7	R788	QRD125J-330 QRD167J-561			UNF, CARBOI CARBON	7
	R792	QRD167J-561			CAREON	
	R793	QRD167J-561	560	1/6W	CARBON	
	R794	QRD167J-561			CARBON	
	R795	QRD167J-271	270	1/6W	CARBON	

Resistors

	1					
Δ	LTEM	PART NUMBER		RI	PTION	AREA
	R796	QRD167J-271	270	1/6W	CARBON	
	R797	QRD167J-161	160	1/6W	CARBON	
	R798	QRD167J-161	160	1/6W	CARBON	
Δ	R801	QRD14CJ-220S	22	1/4W	UNF.CARBON	
Δ	R801	QRZ0077-150	15	1/4W	FUSIBLE	F G
4	R801	QRZ0077-150	15	1/4W	FUSIBLE FUSIBLE	Н
Δ	R801 R801	QRZ0077-150 QRZ0077-150	15 15	1/4W	FUSIBLE	IBS
Δ.	R802	QRD14CJ-330S	33	1/4W	UNF.CARBON	J
Δ	R802	QRZ0077-330	33	1/4W	FUSIBLE	F
Δ	R802	QRZ0077-330	33	1/4W	FUSIBLE	G
Δ	R802	QRZ0077-330	33	1/4W	FUSIBLE	н
Δ	R802	QRZ0077-330	33	1/4W	FUSIBLE	IBS
	R803	QRD167J-223	22K	1/6W	CARBON	
	R804	QRD167J-203	20K	1/6W	CARBON	
Δ	R811	QRD14CJ-330S	33	1/4W	UNF. CARBON	J
Δ	R811	QRZ0077-330	33	1/4W	FUSIBLE	F
\triangle	R811	QRZ0077-330	33	1/4W	FUSIBLE	G
△	R811	QRZ0077-330	33	1/4W	FUSIBLE	н
⚠	R811	QRZ0077-330	33	1/4W	FUSIBLE	IBS
	R812	QRD14CJ-330S	33	1/4W	UNF. CARBON	J
	R812	QRZ0077-330	33	1/4W	FUSIBLE	F
Δ	R812	QRZ0077-330	33	1/4W	FUSIBLE	G
A	R812	QRZ0077-330	33	1/4W	FUSIBLE	Н
△	R812	QRZ0077-330	33	1/4W	FUSIBLE	IBS
	R813	QRD167J-223	22K	1/6W	CARBON	
1	R814	QRD167J-563	56K	1/6W	CARBON	
	R816	QRD167J-393	39K	1/6W	CARBON	
	R817	QRD167J-221	220	1/6W	CARBON	
- 1	R851 R852	QRD167J-100	10	1/6W	CARBON	
	R853	QRD167J-100 QRD167J-100	10	1/6W	CARBON	
- 1	R854	QRD167J-100	10	1/6W	CARBON	
	R855	QRD167J-100	10	1/6W	CARBON	
1	R856	QRD167J-100	10	1/6W	CARBON	
İ	R857	QRD167J-100	10	1/6W	CARBON	
1	R858		10	1/6W	CARBON	
i	R901	QRD167J-272	2.7K	1/6W	CARBON	
	R902	QRD167J-272	2.7K	1/6W	CARBON	
1	R903	QRD167J-153	15K		CARBON	
	R904	QR0167J-153	15K		CARBON	
	R905		100K		CARBON	
	R906	QRD167J-823	82K	1/6W	CARBON	
	R907	QRD167J-223	22K	1/6W	CARBON	
1	R908	QRD167J-223	22K	1/6W	CARBON	
- 1	R909	QRD167J-103	10K	1/6W	CARBON	
- 1	R911	QRD167J-473	47K	1	CARBON	
	R912	QRD167J-562	5.6K		CARBON	
	R916	QRD167J-103	10K	1	CARBON	
	R917		10K		CARBON	
	R918		220K	4	CARBON	
	R919		3.3K	,	CARBON	
	R920		39K	• • • • • • •	CARBON	
1	R921		15K	1/6W	CARBON	
	R923		200	1	CARBON	
△	R925		1.2K	2W	O.M.FILM	
	11763	QRD167J-151	150	1/6W	CARBON	

▲ : SAFETY PARTS

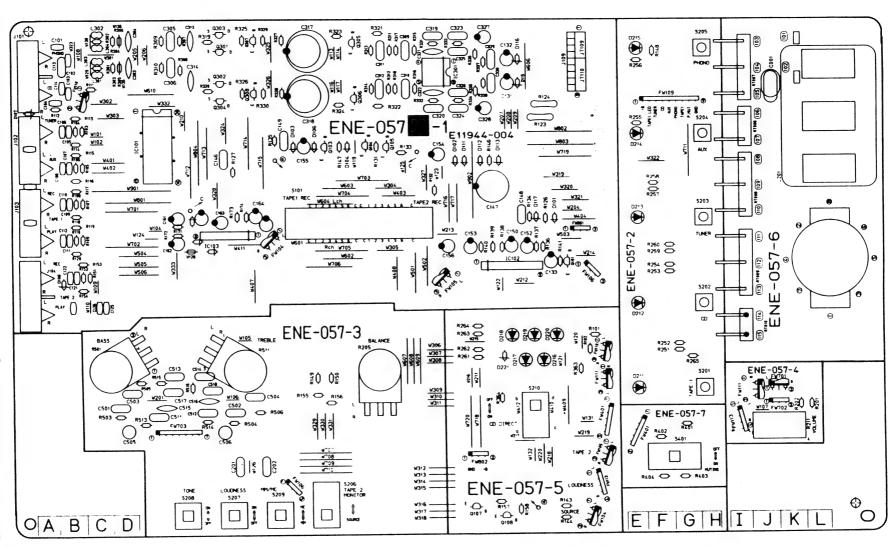
Others

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EMG7331-0022					1
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E03675-004			1	FUSE CLIP	IBS
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△ : SAFETY PARTS					
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∆ : SAFETY PARTS					
				△ : SAFETY PAR	TS

Source Selector PC Board Ass'y ■ ENE-057 □

Note: ENE-057

Varies according to the employed. See note (1) when placing an order.



Note (1)

PC Board Ass'y	Designated Areas
ENE-057 D	the U.S.A., Canada, Continental Europe Australia, the U.K.
ENE-057 E	West Germany
ENE-057 F	Other Countries

Transistors

Æ	ITEM	PART NUMBER	DESCR	IPTION	AREA
				MAKER	
	Q101	DTA144ES	SILICON	ROHM	
	Q103	2SC2389(S,E)	SILICON	ROHM	
l	Q104	DTC144ES	SILICON	ROHM	
1	Q105	DTA144ES	SILICON	ROHM	
	Q107	2503068	SILICON	SANYO	
	Q108	2503068	SILICON	SANYO	
1	0301	2SK170(BL)	F.E.T	TOSHIBA	
	Q302	2SK170(BL)	F.E.T	TOSHIBA	
1	Q303	2SK170(BL)	F.E.T	TOSHIBA	
ļ	Q304	2SK170(BL)	F.E.T	TOSHIBA	
ĺ	Q305	2SD655(E,F)	SILICON	HITACHI	
	9306	2SD655(E,F)	SILICON	HITACHI	
	Q307	2SD655(E,F)	SILICON	HITACHI	
	0308	2SD655(E,F)	SILICON	HITACHI	
			<u> </u>	SAFETY PAR	TS

I.C.s

á	LTEM	PART NUMBER	DESCR	1 P T I O N ARE	٨
١.				MAKER	
	1 C 1 O 2 1 C 1 O 3	L C 7818 T A 7317P V C 4580LD N J M 4560DD	I.C. I.C. I.C.	SANYO TOSHIBA DAINICHI DAINICHI	
			<u>£</u> :	SAFETY PARTS	

Diodes

£ι	ТЕМ	PART NUMBER	DESCR	MAKER	AREA
	0106 0107 0108 0111 0112 0113 0115 0116 0117 0211 0211 0212 0213 0214 0215 0216	1SS133 1SS133 1SS133 MTZ3.3JB MTZ3.3JB MTZ3.3JB 1SS133 1SS133 MTZ5.6JC MTZ13JC MTZ13JC MTZ13JC MTZ13JC MTZ6.8JC SLR-331PU50F070 SLR-331PU50F070 SLR-331PU50F070 SLR-331PU50F070 SLR-331PU50F070 SLR-331PU50F070 SLR-331PU50F070 SLR-331PU50F070 SLR-34PC50F165 SLR-34PC50F165 SLR-34PC50F165	SILICON SILICON SILICON SILICON ZENER ZENER SILICON	ROHM ROHM ROHM ROHM ROHM ROHM ROHHM	

£ : SAFETY PARTS

Capacitors

A	ІТЕМ	PART NUMBER	DES	C R I	PTION	AREA
	C001	QC Z9038-103	0.01MF		CERAMIC	F
1			470PF	50V	CERAMIC	Ε
1	C102	QCBB1HK-471	470PF	50V	CERAMIC	E
1	C103	QCBB1HK-471	470PF	SOV	CERAMIC	E
1	C104	QCBB1HK-471	470PF	sov	CERAMIC	E

Capacitors

A		paci	1013	·			T
C106 C08B1HK-221 220PF SOV CERAMIC E	Λ	LTEM	PART NUMBER	DESC	C R I	PTION	AREA
C107 GCBB1HK-221 220PF SOV CERAMIC E C108 GCBB1HK-221 220PF SOV CERAMIC E C109 GCBB1HK-221 220PF SOV CERAMIC E C111 GCBB1HK-221 220PF SOV CERAMIC E C111 GCBB1HK-331 330PF SOV CERAMIC E C111 GCBB1HK-331 330PF SOV CERAMIC E C111 GCBB1HK-331 330PF SOV CERAMIC E C113 GCBB1HK-331 330PF SOV CERAMIC E C113 GCBB1HK-231 220PF SOV CERAMIC E C113 GCBB1HK-221 220PF SOV CERAMIC E C121 GCBB1HK-221 220PF SOV CERAMIC E C125 GCBB1HK-221 220PF SOV CERAMIC E C125 GCBB1HK-221 220PF SOV CERAMIC E C126 GCBB1HK-221 220PF SOV CERAMIC E C126 GCBB1HK-221 220PF SOV CERAMIC E C126 GCBB1HK-221 220PF SOV CERAMIC E C126 GCBB1HK-221 220PF SOV CERAMIC E C126 GCBB1HK-221 220PF SOV CERAMIC E C127 GCBB1HK-221 220PF SOV CERAMIC E C131 GETB1EM-107 100MF 25V ELECTRO C132 GETB1EM-107 100MF 25V ELECTRO C132 GETB1EM-107 100MF 25V ELECTRO C146 GFM81HJ-562 S600PF SOV MYLAR C148 GFM81HJ-562 S600PF SOV MYLAR C148 GFM81HJ-562 S600PF SOV MYLAR C150 GETB1HM-475 L.7MF SOV ELECTRO C153 GETB1HM-475 L.7MF SOV ELECTRO C155 GETB1HM-475 L.7MF SOV ELECTRO C156 GETB1HM-475 L.7MF SOV ELECTRO C156 GETB1HM-475 L.7MF SOV ELECTRO C156 GETB1HM-475 L.7MF SOV ELECTRO C156 GETB1HM-475 L.7MF SOV ELECTRO C156 GETB1HM-475 L.7MF SOV ELECTRO C156 GETB1HM-475 L.7MF SOV ELECTRO C156 GETB1HM-333 O.033MF SOV T.FILM C166 EE25009-106 10MF ELECTRO C166 EE25009-106 10MF ELECTRO C166 EE25009-106 10MF ELECTRO C167 GETB1HM-333 O.033MF SOV T.FILM C167 GCS21HJ-331 S00PF SOV MYLAR G167 GCS21HJ-331 S00PF SOV MYLAR G167 GCS21HJ-680 G8PF SOV CERAMIC G174 GCS21HJ-680 G8PF SOV CERAMIC G174 GCS21HJ-680 G8PF SOV CERAMIC F C167 GCS21HJ-680 G8PF SOV MYLAR G174 GCS21HJ-680 G8PF SOV MYLAR G174 GCS21HJ-680 G8PF SOV MYLAR G174 GCS21HJ-680 G8PF SOV MYLAR G174 GCS21HJ-272 C700PF SOV MYLAR G174 GCS21HJ-272 C700PF SOV MYLAR G174 GCS21HJ-272 C700PF SOV MYLAR G175 GCS21HJ-272 C700PF SOV MYLAR G175 GCS21HJ-272 C700PF SOV MYLAR E E C1570 GCS21HJ-272 C700PF SOV MYLAR G175 GCS21HJ-272 C700PF SOV MYLAR G175 GCS21HJ-272 C700PF SOV MYLAR G175 GCS21HJ-272 C700PF SOV MYLAR G175 GCS21HJ-272 C700PF SOV MYLAR G175 GCS21HJ-272)				50V	CERAMIC	E
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C306 QFN81HK-103 O.01MF SOV MYLAR SOV QFN81HK-392 SOOPF SOV MYLAR SOV MYLAR SOV QFN81HK-392 SOOPF SOV MYLAR C311 QFN81HK-822 SOOPF SOV MYLAR C312 QFN81HK-822 SOOPF SOV MYLAR C313 QCS21HJ-680 68P SOV CERAMIC E C313 QCS21HJ-680 68PF SOV CERAMIC E C314 QCS21HJ-680 68PF SOV CERAMIC E C317 QETBOJM-228 2200MF 6.3V ELECTRO C318 QETBOJM-228 2200MF 6.3V ELECTRO C319 QFN81HJ-472 4700PF SOV MYLAR C321 QCS21HJ-331 SOPF SOV CERAMIC C322 QCS21HJ-331 SOPF SOV CERAMIC C322 QCS21HJ-331 SOPF SOV CERAMIC C322 QCS21HJ-331 SOPF SOV CERAMIC C323 QFN81HJ-153 O.015MF SOV MYLAR C324 QFN81HJ-272 2700PF SOV MYLAR C325 QFN81HJ-272 2700PF SOV MYLAR C326 QFN81HJ-272 2700PF SOV MYLAR E C327 EEZ5009-106 10MF ELECTRO ELECTRO C328 EZ5009-106 10MF ELECTRO C328 EZ5009-106 10MF ELECTRO C329 QFN81HK-153 O.015MF SOV MYLAR E C502 QFN81HK-823 O.082MF SOV MYLAR E C503 QFN81HK-823 O.082MF SOV MYLAR C504 QFN81HK-823 O.082MF SOV MYLAR C505 QENS1HM-475 4.7MF SOV NON POLE C504 QFN81HK-823 O.082MF SOV MYLAR C505 QENS1HM-475 4.7MF SOV MYLAR C505 QENS1HM-475 4.7MF SOV MYLAR C512 QFN81HK-183 O.018MF SOV MYLAR C512 QFN81HK-183 O.018MF SOV MYLAR C514 QFN81HK-183 O.018MF SOV MYLAR C515 QCS21HJ-221 220PF SOV CERAMIC C517 QFN81HK-122 1200PF SOV MYLAR C518 QFN81H							
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C310 QFN81HK-392 S900PF SOV MYLAR C311 QFN81HK-822 S200PF SOV MYLAR C312 QFN81HK-822 S200PF SOV MYLAR C313 QCS21HJ-680 G8P SOV CERAMIC D C313 QCS21HJ-680 G8P SOV CERAMIC E C314 QCS21HJ-680 G8PF SOV CERAMIC E C317 QETBOJM-228 2200MF G.3V ELECTRO C318 QETBOJM-228 2200MF G.3V ELECTRO C319 QFN81HJ-472 4700PF SOV MYLAR C320 QFN81HJ-472 4700PF SOV MYLAR C321 QCS21HJ-331 S30PF SOV CERAMIC C322 QCS21HJ-331 S30PF SOV CERAMIC C323 QFN81HJ-153 O.015MF SOV MYLAR C325 QFN81HJ-272 2700PF SOV MYLAR C326 QFN81HJ-272 2700PF SOV MYLAR C326 QFN81HJ-272 2700PF SOV MYLAR C327 EEZ5009-106 10MF ELECTRO ELECTRO C329 QFN81HJ-222 2200PF SOV MYLAR E C320 QFN81HK-153 O.015MF SOV MYLAR E C320 QFN81HK-153 O.015MF SOV MYLAR E C501 QFN81HK-153 O.015MF SOV MYLAR E C502 QFN81HK-823 O.082MF SOV MYLAR C503 QFN81HK-823 O.082MF SOV MYLAR C504 QFN81HK-823 O.082MF SOV MYLAR C505 QENS1HM-475 4.7MF SOV NON POLE C511 QFN81HK-332 S300PF SOV MYLAR C512 QFN81HK-332 S300PF SOV MYLAR C513 QFN81HK-183 O.018MF SOV MYLAR C514 QFN81HK-183 O.018MF SOV MYLAR C515 QCS21HJ-221 220PF SOV CERAMIC C516 QCS21HJ-221 220PF SOV CERAMIC C517 QFN81HK-122 1200PF SOV MYLAR C518 QFN81HK-122 1200PF SOV MYL		- 1					
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C317 QETBOJM-228 2200MF 6.3V ELECTRO							
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C320 QFN81HJ-472		1		i			
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C322 QCS21HJ-331						-	
C323 QFN81HJ-153 O.015MF SOV MYLAR C324 QFN81HJ-153 O.015MF SOV MYLAR C325 QFN81HJ-272 2700PF SOV MYLAR C326 QFN81HJ-272 2700PF SOV MYLAR C327 EEZ5009-106 10MF ELECTRO C328 EEZ5009-106 10MF ELECTRO C329 QFN81HJ-222 2200PF SOV MYLAR C330 QFN81HJ-222 2200PF SOV MYLAR C501 QFN81HK-153 O.015MF SOV MYLAR C502 QFN81HK-153 O.015MF SOV MYLAR C503 QFN81HK-823 O.082MF SOV MYLAR C504 QFN81HK-823 O.082MF SOV MYLAR C505 QFN81HK-823 O.082MF SOV MYLAR C505 QFN81HK-332 3300PF SOV MYLAR C511 QFN81HK-332 3300PF SOV MYLAR C512 QFN81HK-332 3300PF SOV MYLAR C513 QFN81HK-333 O.018MF SOV MYLAR C514 QFN81HK-183 O.018MF SOV MYLAR C515 QCS21HJ-221 220PF SOV CERAMIC C516 QCS21HJ-221 220PF SOV CERAMIC C517 QFN81HK-122 1200PF SOV MYLAR C518 QFN81HK-122 1200PF SOV MYLAR					1	1	
C325 QFN81HJ-272 2700PF 50V MYLAR 2702P 50V MYLAR 2700PF 50V CERAMIC 2700PF 50V MYLAR 2700P						1	
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C518 QFN81HK-122 1200PF 50V MYLAR					t		
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Resistors

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	Δ	LTEM	PART NUMBER	DESC	RI	P T 1 O N	AREA
		R101	QRD167J-105	1 M	1/6W	CARBON	
1		R102	QRD167J-105	1 M	1/6W	CARBON	
1		R103	QRD167J-105	1 M	1/6W	CARBON	
1		R104	QRD167J-105	1 M	1/6W	CARBON	1 1
1		R105	QRD167J-105	1 M	1/6W	CARBON	1
1		R106	QRD167J-105	1 M	1/6W	CARBON	
		R107	QRD167J-105	1 M	1/6W	CARBON	
1		R108	QRD167J-105	1 M	1/6W	CARBON	
- 1		D 1 00	0001171 105	12.00	10	CADDON	1

Resistors

Δ	LTEM	PART NUMBER	DESC	R 1	PTION ARE
	R110	QRD167J-105	1	1/6W	CARBON
	R111	QRD167J-471	470	1/6W	CARBON
	R112	QRD167J-471	470	1/6W	CARBON
	R113	QRD167J-471	470	1/6W	CARBON
	R114	QRD167J-471	470	1/6W	CARBON
	R115	QRD167J-471	470	1/6W	CARBON
	R116	QRD167J-471	470	1/6W	CARBON
	R117	QRD167J-471	470	1/6W	CARBON
	R118	QRD167J-471	470	1/6W	CARBON
	R119	QRD167J-471	470	1/6W	CARBON
	R120	QRD167J-471	470	1/6W	CARBON
7	R123	QRZ0077-101	100	1/4W	FUSIBLE
7	R124	QRZ0077-101	100	1/4W	FUSIBLE
	R126	QRD167J-104	100K	1/6W	CARBON
	R127	QRD167J-104	100K	1/6W	CARBON
	R131	QRD167J-103	10K	1/6W	CARBON
	R132	QRD167J-103	10K	1/6W	CARBON
	R133	QRD167J-102	1 K	1/6W	CARBON
	R134	QRD167J-103	10K	1/6W	CARBON
	R135	QRD167J-474	470K	1/6W	CARBON
	R136	QRD167J-562	5.6K	1/6W	CARBON
	R137	QRD167J-473	47K	1/6W	CARBON
	R138	QRD167J-392	3.9K	1/6W	CARBON
			100K	1/6W	CARBON
	R139	QRD167J-104	100K	1/6W	CARBON
	R140	QRD167J-104	1	1	CARBON
	R141	QRD167J-223	22K	1/6W	
	R143	QRD167J-102	1K	1/6W	CARBON
	R144		1 K	1/6W	CARBON
	R146	QRD167J-122	1.2K	1/6W	CARBON
	R147	QRD167J-473	47K	1/6W	CARBON
	R148	QRD167J-273	27K	1/6W	
	R149	QRD167J-471	470	1/6W	CARBON
	R150	QRD167J-471	470	1/6W	CARBON
	R151	QRD167J-105	1 M	1/6W	CARBON
	R152	QRD167J-105	1 M	1/6W	CARBON
	R153	QRD167J-471	470	1/6W	CARBON
	R154	QRD167J-471	470	1/6W	CARBON
	R155		1 M	1/6W	CARBON
	R156		1 M	1/6W	CARBON
	R157	QRD167J-333	33K	1/6W	CARBON
	R158		33K	1/6W	CARBON
	R171	QRD167J-473	47K	1/6W	CARBON
			47K	1/6W	CARBON
	R172		470K	1/6W	CARBON
	R173		4704	1/6W	CARBON
	R174		22X	1/6W	CARBON
	R201	QRD167J-223 QRD167J-223	22K	1/6W	CARBON
	R205	QVDB87M-EF5B	250K	1704	VARIABLE
	R211		250K		VARIABLE
	R251	QRD167J-122	1.2K	1/6W	CARBON
	R252		1.2K	1/6W	CARBON
	1		1.2K	1/6W	
	R253				CARBON
	R254		1.2K	1/6W	
	R255		1.2K	1/6W	CARBON
	R256		1.24	1/6W	CARBON
	R257		1.2	1/6W	
	R258		1.2X	1/6W	CARBON
	R259		1.24	1/6W	CARBON
	R260		1.2K	1/6W	CARBON
	R261	QRD167J-122	1.2K	1/6W	CARBON
	R262	QRD167J-112	1.1K	1/6W	CARBON
	R263	QRD167J-102	1 K	1/6W	CARBON
	R264	QRD167J-122	1.2K	1/6W	CARBON
	R265	QRD167J-104	100K	1/6W	CARBON
	R301	QRD167J-331	330	1/6W	CARBON E
	R302	QRD167J-331	330	1/6W	CARBON E
	R303		47K	1/6W	CARBON
	R304	QRD167J-473	47K	1/6W	CARBON
	R305		470	1/6W	CARBON
		QRD167J-471	470	1/6W	CARBON
	R306				
	R307	QRD167J-5R6	5.6	1/6W	CARBON
	R308	QRD167J-5R6	5.6	1/6W	CARBON
	R309		100	1/6W	CARBON
	R310		100	1/6W	CARBON
	R311	QRD167J-562	5.6K	1/6W	CARBON
	R312	QRD167J-562	5.6K	1/6W	CARBON
	R313	QRD167J-270	27	1/6W	CARBON
	R314	QRD167J-270	27	1/6W	CARBON
	R315	QRD167J-561	560	1/6W	CARBON
	R316		560	1/6W	CARBON
	R317	QRD167J-562	5.6K	1/6W	CARBON
			5.6K	1/6W	CARBON
. ,	1 0 2 1 0		12.04		
	R318		2 2 K	11 / KW	CARBON !
	R319	QRD167J-222	2.2K	1/6W	CARBON
		QRD167J-222 QRD167J-222	2.2K 2.2K 2.7K	1/6W 1/6W 1/6W	CARBON CARBON CARBON

Resistors

A LTEM	PART NUMBER	DESC	RI	PTION	ARE
R323		27K		CARBON	
1 1	QRD167J-273	27K	1/6W	CARBON	
R325	QRD167J-273	27K	1/6W	CARBON	
R326		27K	1/6W	CARBON	
R327		18	1/6W	CARBON	
R328		18	1/6W	CARBON	
R329	QRD167J-221	220	1/6W	CARBON	
R330	QRD167J-221	220	1/6W	CARBON	
R331	QRD167J-153	15K	1/6W	CARBON	
R332	QRD167J-153	15K	1/6W	CARBON	
R333	QRD167J-184	180K	1/6W	CARBON	
R334	QRD167J-184	180K	1/6W	CARBON	
R335	QRD167J-471	470	1/6W	CARBON	
R336	QRD167J-471	470	1/6W	CARBON	
R337	QRD167J-104	100K	1/6W	CARBON	
R338	QRD167J-104	100K	1/6W	CARBON	
R363	QRD167J-471	470	1/6W	CARBON	
R364	QRD167J-471	470	1/6W	CARBON	
R401	QRD167J-823	82K	1/6W	CARBON	
R402	QRD167J-823	82K	1/6W	CARBON	
R403	QRD167J-103	10K	1/6W	CARBON	
R404	QRD167J-103	10K	1/6W	CARBON	
R501	QVDB87C-E15B	100K		VARIABLE	
R503	QRD167J-203	20K	1/6W	CARBON	
R504	QRD167J-203	20K	1/6W	CARBON	
R505	QRD167J-362	3.6K	1/6W	CARBON	
R506	QRD167J-362	3.6K	1/6W	CARBON	
R511	QVD887C-E158	100K		VARIABLE	
R513	QRD167J-472	4.7K	1/6W	CARBON	
R514	QRD167J-472	4.7K	1/6W	CARBON	
R515	QRD167J-821	820	1/6W	CARBON	
R516		820	1/6W	CARBON	
			\ : S	AFETY PAR	TS

Others

҈Ѧ	тем	PART NUMBER	DESCRIPTION	ARE/
		E11944-004	CIRCUIT BOARD	
		E305983-001	HOLDER	
		E65508-002	TAB	
A		QSR0085-009	VOLTAGE SELECTOR	F
<u>^</u>	J001	QMC0637-004	AC OUTLET	F
_	J101	EMNOOTV-408A	4P PIN JACK	
	J102	EMNOOTV-407A	AP PIN JACK	
	J103	EMNOOTV-407A	4P PIN JACK	
	J104	EMNOOTV-408A	4P PIN JACK	
	L301	EQL4004-270	INDUCTOR	Ε
	L302	EQL4004-270	INDUCTOR	E
	L303	EQL4004-220	INDUCTOR	E
	L304	EQL4004-220	INDUCTOR	Ε
	S101	QSS1J46-E01	SLIDE SWITCH	
	S201	ESP0001-018	TACT SWITCH	
	\$202	ESP0001-018	TACT SWITCH	
	\$203	ESP0001-018	TACT SWITCH	
	\$204	ESP0001-018	TACT SWITCH	
	\$205	ESP0001-018	TACT SWITCH	
	\$206	QSTL451-E01	PUSH SWITCH	
	\$210	QSTL101-E05	PUSH SWITCH	
	\$401	QSTL101-E01	PUSH SWITCH	-
	FW104	EWR23C-35NN	FLAT WIRE	
	FW105	EWR23C-30NN	FLAT WIRE	
	FW106	EWR33B-35SST	FLAT WIRE	
	FW109	EWR39B-20LST	FLAT WIRE	
	FW110		FLAT WIRE	
	FW111	EWR23C-16NN	FLAT WIRE	
	FW113	EWR34B-20SST	FLAT WIRE	
	FW401	EWR35B-20SST	FLAT WIRE	
	FW701	EWR23C-13LN	FLAT WIRE	
	FW702	EWR338-13LST	FLAT WIRE	
	FW703	EWR37B-40LST	FLAT WIRE	
	FW801	EWR33B-10LST	FLAT WIRE	
	FW802	EWR33B-20LST	FLAT WIRE	
	JT109	EMV7122-004	CONNECTOR	
	JT110	EMV7122-005	CONNECTOR	
	RTOO6	E67764-302	WRAPPING TERMINAL	F
	RTO07	E67764-303	WRAPPING TERMINAL	F
	RT008	E67764-303	WRAPPING TERMINAL	F
	RTO09	E67764-303	WRAPPING TERMINAL	F
	RTO10	E67764-402	WRAPPING TERMINAL	F
			A : SAFETY PAI	≀TS

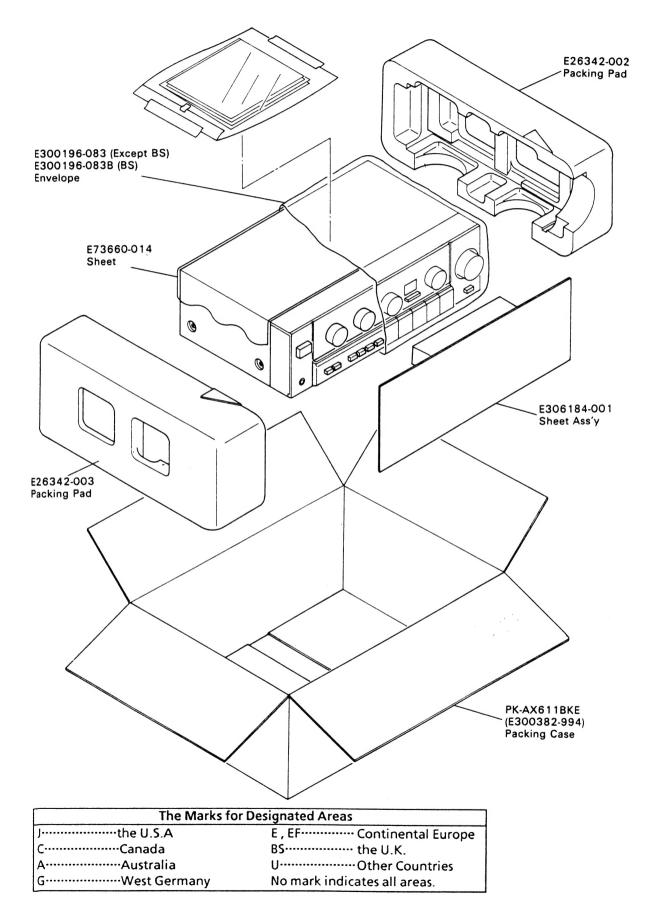
Accessories List

\triangle	Part Number	Part Name	Q'ty	Description	Areas
	E30580-1518A E30580-1518ABS BT20025K BT20029C BT20098	Instruction Book Instruction Book Warranty Card Warranty Card Warranty Card	1 1 1 1	for Australia for New Zealand	Except BS BS C A A
	BT20064A BT20060 BT20066A BT20071A BT20044F	Warranty Card Warranty Card EEC Agency Service Center Rist Safety Instruction Sheet	1 1 1 1		G BS G,BS C
	E43486-340A QZL1008-001 E72360-001 BT20048C BT20108	Safety Sheet FTZ Information Sheet Caution Sheet Warranty Card Service Information	1 1 1 1		BS G C J
Δ	E66416-003 E04056 E35497-019 E41202-2 E41202-2B	Envelope Siemens Plug Caution Sheet Envelope Envelope	1 1 1 1	for Warranty Card	J U U Except B\$ B\$

⚠: Safety Parts

The Marks for Designated Areas				
Jthe U.S.A	E , EF Continental Europe			
C·····Canada	BS······ the U.K.			
A······Australia	UOther Countries			
G·····West Germany	No mark indicates all areas.			

Packing Materials and Part Numbers



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